

## ABSTRACT OF THE DISCLOSURE

For measuring temperature of a fluid flowing in a tube, a temperature measuring device is provided with an electric temperature sensor which is securely attached to a tube section so as not to shift in an axial or radial direction. The temperature sensor is applied mechanically fixed on strip conductors on the outer side of the tube section by a thermally and electrically good-conducting paste. The sensor is protected against the outside by a hollow housing, preferably sheath-shaped, surrounding the tube section with a spacing. A connection cable, electrically and mechanically firmly connected with the sensor, is guided out of the sheath-shaped housing through an opening.